

and hardware in the implementations illustrated in the figures. The actual software code or specialized control hardware used to implement aspects consistent with the principles of the embodiments is not limiting of the embodiments. Thus, the operation and behavior of the aspects were described without reference to the specific software code—it being understood that one of ordinary skill in the art would be able to design software and control hardware to implement the aspects based on the description herein.

[0070] Further, certain portions of the embodiments may be implemented as “logic” that performs one or more functions. This logic may include hardware, such as hardwired logic, an application specific integrated circuit, a field programmable gate array or a microprocessor, software, or a combination of hardware and software.

[0071] It should be emphasized that the term “comprises/ comprising” when used in this specification and/or claims is taken to specify the presence of stated features, integers, steps or components but does not preclude the presence or addition of one or more other features, integers, steps, components or groups thereof.

[0072] No element, act, or instruction used in the present application should be construed as critical or essential to the embodiments unless explicitly described as such. Also, as used herein, the article “a” is intended to include one or more items. Where only one item is intended, the term “one” or similar language is used. Further, the phrase “based on” is intended to mean “based, at least in part, on” unless explicitly stated otherwise.

What is claimed is:

1. A mobile communication device, comprising:
a keypad assembly comprising:
a touch sensitive cover;
an ultrasonic element; and
a display for displaying characters; and
logic configured to:
sense an input on the touch sensitive cover, and
activate the ultrasonic element based on the sensed input to provide tactile feedback to a user.
2. The mobile communication device of claim 1, where the keypad assembly further comprises:
an enclosure that contains a liquid and the ultrasonic element.
3. The mobile communication device of claim 2, where the ultrasonic element produces an ultrasonic wave through the liquid to provide the tactile feedback to a user.
4. The mobile communication device of claim 1, where the logic is further configured to:
determine a position of input on the touch sensitive cover.
5. The mobile communication device of claim 4, where the logic is further configured to:
display a character based on the determined position of input on the touch sensitive cover.
6. A method, comprising:
receiving input on a touch sensitive surface of a device; and
activating an ultrasonic element to vibrate in response to the received input, where the vibration provides tactile feedback to a user indicating that the device has received the input.

7. The method of claim 6, further comprising:
sensing the input on the touch sensitive surface by a capacitive film.
8. The method of claim 7, where the receiving input on a touch sensitive surface comprises:
detecting a finger of the user on the touch sensitive surface.
9. The method of claim 6, further comprising:
determining a position of the received input on the touch sensitive surface.
10. The method of claim 9, further comprising:
displaying a character based on the determined position of the received input on the touch sensitive surface.
11. A mobile communication device, comprising:
means for providing a plurality of keys;
means for sensing a position of input relative to the plurality of keys;
means for providing ultrasonic vibrations within the mobile communication device in response to sensing a position of input; and
means for displaying a character based on the sensed position of input relative to the plurality of keys.
12. The mobile communication device of claim 11, where the means for providing a plurality of keys includes a liquid crystal display (LCD).
13. The mobile communication device of claim 12, where the means for sensing a position of input relative to the plurality of keys includes a capacitive film.
14. The mobile communication device of claim 13, where the means for providing ultrasonic vibrations within the mobile communication device includes a piezo-electric element.
15. The mobile communication device of claim 14, where the means for providing ultrasonic vibrations within the mobile communication device further comprises:
an enclosure that contains a liquid and the piezo-electric element.
16. A device, comprising:
a keypad assembly comprising:
a touch sensitive surface;
an enclosure that contains a liquid; and
an ultrasonic element, where the ultrasonic element is located within the enclosure; and
logic configured to:
determine an input position on the touch sensitive surface, and
activate the ultrasonic element to produce a vibration through the liquid to provide tactile feedback to a user in response to the determined input position on the touch sensitive surface.
17. The device of claim 16, where the touch sensitive surface is glass.
18. The device of claim 17, where the enclosure is in contact with the bottom of the touch sensitive surface.
19. The device of claim 18, where a plurality of keys are displayed on a liquid crystal display (LCD) of the keypad assembly, where the LCD is located beneath the enclosure.
20. The device of claim 16, further comprising:
a display, where a character is displayed on the display based on the determined position of input on the touch sensitive surface.

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